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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,144	03/19/2004	Hiroo Takizawa	Q80575	6372
23373 7	7590 10/03/2005		EXAMINER	
SUGHRUE MION, PLLC			BERMAN, SUSAN W	
2100 PENNSY	LVANIA AVENUE, N	1.W.		
SUITE 800			ART UNIT	PAPER NUMBER
WASHINGTO	N. DC 20037		1711	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Applica	tion No.	Applicant(s)	[V			
Office Action Summary		. 10/804,	144	TAKIZAWA ET AL.				
		Examin	er	Art Unit				
			V. Berman	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)[	Responsive to communication(s) file	ed on .						
2a)□	This action is <b>FINAL</b> .	2b)⊠ This action is	non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠								
Applicat	ion Papers							
9)[	The specification is objected to by the	ne Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)□	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	under 35 U.S.C. § 119			·	•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) □ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	nt(s)							
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date <u>6/04</u> .		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 				

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#### Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention: a two-photon absorbing polymerizable composition, a three-dimensional optical recording medium and a stereolithography composition. Each group of composition claims is further directed to the following patentably distinct species of compositions: (1) compositions comprising different species of two-photon absorbing compound, such as different species of methine dye, i.e. a cyanine dye, a merocyanine dye or an oxonol dye or a dye of formula (1) in claim 2; (2) compositions comprising a polymerization initiator or not and, if present, different species of initiator as set forth in claims 6 and 18, (3) compositions comprising different species of polymerizable compound, i.e. a free radically polymerizable species or a cationically polymerizable species.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is required to elect a species of two-photon absorbing compound, no initiator or a species of initiator and a species of polymerizable compound and further to elect whether the composition is a three-dimensional optical recording medium or a stereolithography composition. Currently, claims 1 and 10 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

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Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

During a telephone conversation with Lee Wright on September 2, 2005, a provisional election was made with traverse to prosecute the invention of Sample 202 in Example 3 (page 40), claims 1-18.

Affirmation of this election must be made by applicant in replying to this Office action.

# Claim Objections

Claim7, 8 and 9 are objected to because of the following informalities: the phrases "initiator of generating" and "compound of undergoing" are incomplete. Appropriate correction is required.

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the

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invention. The use of the word "base" in "ketone-base", "peroxide-base", etc. renders the claim indefinite because it is not clear whether initiator 1) is a ketone compound or not or whether initiator 2) is an organic peroxide or not, etc. It is not clear what structure is intended by a "cationic two-photon absorbing compound onium salt complex-base".

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, and 6-18 are rejected under 35 U.S.C. 102(e) as being anticipated by DeVoe (6,852,766). DeVoe discloses compositions comprising a reactive species and a multi-component, multiphoton photoinitiator system. Photoinitiators are disclosed in columns 24-27. Multiphoton lithography and stereolithography are taught in column 1, lines 44-56. Multiphoton photosensitizers, including methane compounds, are taught in column 9, line 60, to column 17.

Claims 1,2, 4, 6-10, and 12-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Inagaki et al (US 2003/0052311 A1, filed 07-05-2002). Inagaki et al disclose compositions comprising a two-photon absorbing compound. See the Abstract and the methine compounds on pages 4-6. Monomers and photoinitiators are taught in paragraph [0042] to [0045].

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## Allowable Subject Matter

Claims 3-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art cited herein does not teach the two-photon absorbing compounds set forth in claims 3-5, which contain a nitrogen-containing heterocyclic ring in the structure.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan W Berman whose telephone number is 571 272 1067. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571 272 1078. The fax phone number for the organization where this application or proceeding is assigned is 571 273-8300.

Information regarding the status of an application may be obtained from the Patent Application
Information Retrieval (PAIR) system. Status information for published applications may be obtained
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\*\*Additional Content of the Patent Application may be obtained from the Patent Application
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Business Center (EBC) at 866-217-9197 (toll-free).

SB 9/28/05 Susan W Berman Primary Examiner Art Unit 1711